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New combinations in Neotropical Thelypteridaceae

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Abstract

288 new combinations of Neotropical Thelypteridaceae taxa are proposed in order to recognize monophyletic genera, based on the results of the most recent molecular phylogeny of the family, as well as the morphological uniformity of characters for each genus. The new nomenclatural combinations correspond to 186 *Amauropelta* taxa, 77 species of *Goniopteris*, and 25 *Steiropteris* taxa. A key to all native Neotropical genera of the family is also presented.

Keywords

Amauropelta, ferns, *Goniopteris*, *Steiropteris*, *Thelypteris*

Introduction

The Thelypteridaceae, comprising approximately 1,000 species, is one of the largest families of ferns (Smith et al. 2006). It has a cosmopolitan distribution, with most species occurring in tropical and subtropical regions (Smith 1992, Smith et al. 2006, 2008). The family is monophyletic as usually construed (Smith and Cranfill 2002, Schuettpelz and Pryer 2007, He and Zhang 2013, and Almeida et al. 2015). However, the classification within the family is controversial, with authors recognizing different numbers of genera: 32 (Pichi Sermolli 1977), 25 (Holttum 1971, 1982, Old World only), 20 (Ching 1978), 5 (Smith 1990a, Smith et al. 2006, 2008), or only one (Morton 1969, Tryon and Tryon 1982).

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Recent molecular phylogenetic studies have recovered two main groups in the family: the phegopteroid and the thelypteroid lineages (Smith and Cranfill 2002, He and Zhang 2012, and Almeida et al. 2015). The phegopteroid lineage includes two paleotropical genera, *Macrothelypteris* (H.Itô) Ching (*ca.* 10 spp.), *Pseudophegopteris* Ching (*ca.* 20 spp.), and one north-temperate genus, *Phegopteris* Fée (4 spp.). In the thelypteroid lineage, *Thelypteris s.s.* (*Thelypteris palustris* Schott, *T. confluens* (Thunb.) C.V.Morton) is the basal group and sister to a clade that includes all other non-phegopteroid Thelypteridaceae. This confirms the status of *Thelypteris s.s.* as a small, isolated segregate genus of two species. The sister group to *Thelypteris s.s.* comprises two well supported, much larger clades: the amauropeltoid clade, comprising the genera *Amauropelta* Kunze, *Parathelypteris* (H. Itô) Ching, *Coryphopteris* Holttum, and *Metathelypteris* (H.Itô) Ching, and the cyclosoroid clade, comprising several genera from the Old World and the New World (He and Zhang 2012, and Almeida et al. 2015). Inside the cylosoroid clade, several groups in the Paleotropics are still ill-defined and probably not monophyletic (He and Zhang 2012, Almeida et al. 2015). Thus, the current infrafamilial classification for Thelypteridaceae is not in accordance with growing phylogenetic evidence and principles of monophyly.

The following native Neotropical genera of Thelypteridaceae are recognized: *Amauropelta*, *Christella* Lév. (a more precise circumscription still pending), *Cyclosorus* Link, *Goniopteris* (C.Presl) Duek., *Meniscium* Schreber, *Stegnogramma* Blume, *Steiropteris* C.Chr., and *Thelypteris* Schmidel, based on the recent molecular phylogenetic data for this family (Almeida et al. 2015) and the morphological uniformity recognized in previously proposed classifications (Holttum 1971, Pichi Sermolli 1977, Smith 1980, 1990a). With the exception of *Amauropelta* and *Thelypteris*, the other six genera belong to the cyclosoroid clade. In the most recent published floras for Neotropical areas, these monophyletic groups of Thelypteridaceae were treated as subgenera of *Thelypteris*. In the most recent fern classifications (Smith 1990a; Smith et al. 2006, 2008; Christenhusz et al. 2011), *Amauropelta* was treated within the genus *Thelypteris*, and *Christella*, *Cyclosorus*, *Goniopteris*, *Meniscium*, and *Steiropteris* within the genus *Cyclosorus*.

Utilizing our most recent results on molecular phylogeny of the family (Almeida et al. 2015), the monophyletic genera accepted here have strong support. They are also easily defined morphologically by characters in the key below.

Amauropelta, predominantly Neotropical, is most closely related to several Old World genera: *Coryphopteris*, *Metathelypteris*, and *Parathelypteris*. *Amauropelta* is recognized mainly by the laminar base usually gradually or abruptly reduced with one to many pairs of auriculiform or glanduliform pinnae, and by the veins from adjacent segments usually meeting the blade margins above the sinuses on pinnatifid pinnae.

Our results (Almeida et al. 2015) confirm that *Steiropteris* is monophyletic and sister to all remaining cyclosoroid genera except *Stegnogramma*. These results include an interesting novelty: *Thelypteris polypodioides* (Raddi) C.F.Reed and *T. villosa* (Link) C.F.Reed, from southern Brazil (previously *incertae sedis*), nest in *Steiropteris* with strong support. These two species were treated by Christensen (1913) as belonging to *Dryopteris* subg. *Leptogramma* (J.Sm.) C.Chr. (= *Stegnogramma*).

Goniopteris has long been recognized as a natural group (Christensen 1913, Tryon and Tryon 1982, Smith 1990a). It is also monophyletic (Smith and Cranfill 2002, Schuettpelz and Pryer 2007) and has been accorded generic status, e.g., by Copeland (1947), Brade (1972) and Pichi Sermolli (1977). The presence of furcate or stellate hairs on the blades and/or rhizome apex scales is a useful diagnostic character for *Goniopteris* (Salino 2002), but this character has apparently been secondarily lost in a few species: *G. mollis* Fée (Mexico and Central America; Mickel and Smith 2004; Smith 1995a), *G. macrotis* (Hook.) Pic.Serm., *G. semihastata* (Kunze) Salino & T.E.Almeida (both endemic to Peru; Smith 1992), *G. holodictya* (K.U.Kramer) Salino & T.E.Almeida (French Guiana; Smith 1993), and *G. clypeata* (Maxon & C.V.Morton) Salino & T.E.Almeida (Panama, Peru; Smith 1995a, and Colombia).

The narrow circumscription of *Cyclosorus* used here has already been adopted by some authors (e.g., Pichi Sermolli 1977, Holttum 1971, 1982). This clade (pantropical, with two species, only one of which, *C. interruptus* (Willd.) H.Itô, occurs in the Neotropics) is supported as monophyletic in the results of our molecular phylogeny (Almeida et al. 2015). Most native species previously considered in *Thelypteris* subg. *Cyclosorus* (Link) C.V.Morton in some floras (Mickel and Beitel 1988, Mickel and Smith 2004, Proctor 1977, 1985, 1989, Salino and Semir 2002, Smith 1981a,b, 1983, 1988, 1992, 1995a,b) are now treated in the genus *Christella*, as done by Pichi Sermolli (1977) and Holttum (1974, 1982). However, it appears likely that *Christella* sensu Holttum is not monophyletic (see Smith and Cranfill 2002; Schuettpelz and Pryer 2007; He and Zhang 2012).

Following Smith (1990a) and Smith et al. (2006, 2008), Mazumdar and Mukhopadhyay (2013) proposed new combinations in *Cyclosorus* for many species nested in the cyclosoroid clade. However, if this clade is to be considered as a single genus, the oldest generic name is *Meniscium* (Schreber 1791). In order to retain all the names recombined by Mazumdar and Mukhopadhyay (2013), Mazumdar (2015) subsequently proposed conservation of *Cyclosorus* against *Meniscium*. However, we believe conservation is unnecessary, because the cyclosoroid clade, considered by Mazumdar (2015) as a genus, corresponds to at least 10 genera according to recent molecular phylogenetic results (Almeida et al. 2015). We think it preferable that *Cyclosorus sensu stricto* be construed as comprising only two species (see above). At the same time, we interpret phylogenetic evidence to best support *Meniscium* as a genus comprising 26 species (Fernandes et al. 2014).

Meniscium, wholly Neotropical, appears to be monophyletic and more closely related to *Cyclosorus s.s.* (*Cyclosorus interruptus*), *Mesophlebium* Holttum, and *Ampelopteris* Kunze (Almeida et al. 2015). *Meniscium* is morphologically uniform and characterized by short-creeping rhizomes, pinnate leaves each with a conform apical pinna, and by regularly anastomosing veins resulting in parallel rows of areoles that include either a single free vein or a bisecting vein. Fernandes et al. (2014) made five new combinations for *Meniscium* species; combinations are already available for other recognized menisciums. Similarly, combinations are available for 38 species of *Amauropelta*, for nearly 40 species of *Goniopteris*, as well as for nine species of *Steiropteris*. New combinations in *Amauropelta*, *Goniopteris*, and *Steiropteris* are established for most

remaining Neotropical species, those that appear commonly recognized in existing floras and monographs. We refrain from addressing further *Christella* sensu Holttum in the Neotropics, because (as mentioned above) existing evidence suggests that it is not monophyletic – most of the neotropical species (sect. *Pelazoneuron* Holttum) appear to comprise a clade separate from the paleotropical species (sect. *Christella*). However, sampling of *Christella* in both the Old World and New World, as well as affiliated cyclosoroid genera circumscribed by Holttum (1982) in the Paleotropics, is still far too meager to construct a viable taxonomy.

Key to the native Neotropical Thelypteridaceae genera

1 Forked or stellate hairs present at least on the rachises and costae, and/or on the scales at apices of rhizomes, and may be present in other parts of the frond ..... ***Goniopteris***

– All hairs unbranched (hairs fasciculate, i.e., basally clustered, in some species of *Amauropelta*)

2 Laminae 1-pinnate, rarely simple; pinnae entire or with an serrate or undulate margin, rarely shallowly lobed; veins regularly anatomosing, areoles 3–25-seriate between costae and pinna margins **3**

– Laminae 1-pinnate-pinnatifid, rarely 2-pinnate; pinnae incised 1/3 their width or more; veins meeting the margins above sinuses, or connivent at sinuses, or with 1 or 2 pairs of anastomosing below sinuses..... **4**

3 Sori usually in a single row between adjacent costules (except *Meniscium andreanum*, which often has a double row of sori between main lateral veins), oblong or linear, rarely round; sori exindusiate ..... ***Meniscium***

– Sori usually in a double row between adjacent costules, usually round (except *G. holodictya*, which sometimes has only one row of somewhat elongate sori between costules); sori indusiate (indusial may be small, or hidden in mature sori!) or exindusiate..... ***Goniopteris***

4 Sporangia setose; sori elongate, exindusiate..... **5**

– Sporangia not setose, or if setose (in eight species of *Amauropelta*) then sori round; sori round, oblong, or rarely elongate; sori indusiate or exindusiate... **6**

5 Pinnae broadly adnate and decurrent onto rachises in the distal half of laminae; proximal pinnae not cuneate at bases..... ***Stegnogramma*** **(*S. pilosa, S. burksiorum*)**

– Pinnae neither adnate nor decurrent onto rachises, sometimes one distal pair adnate to rachises; proximal pinnae short- to long-cuneate at bases..... ***Steiropteris*** **(*S. polypodioides, S. villosa*)**

6 Laminae with all veins usually meeting margins above the sinuses 7

– Laminae with at least some of the proximal veins running to the sinuses or forming an excurrent vein to the sinuses **9**

7 Laminae narrowed proximally with (1-) 2–20 pairs of greatly reduced pinnae, the proximal pinnae usually auriculiform or glanduliform, rarely proximal pinnae not reduced ..... ***Amauropelta***

– Laminae usually not narrowed proximally, or only slightly so, usually lacking greatly reduced pinnae **8**

8 Rhizomes long-creeping; laminae 1-pinnate-pinnatifid to 2-pinnate; veins of sterile laminae 1- or 2-forked, sometimes simple in the fertile laminae.... ***Thelypteris***

– Stems ascending to erect, rarely short-creeping; laminae 1-pinnate-pinnatifid; veins of sterile and fertile laminae simple .. *Steiropteris* (subg. *Glaphyropteris*)

9 Rhizomes long-creeping to 3 m or more, blackish, scaleless or nearly so ..... ***Cyclosorus***

– Rhizomes short-creeping to ascending or erect, light brown, with conspicuous scales, at least at apices **10**

10 Cartilaginous keel (false vein) present below pinna sinuses, keels extending toward costa but not meeting it; aerophores (tuberculate or often threadlike) at pinna bases usually present, absent in a few species; indusia present or absent ..... ***Steiropteris* (subg. *Steiropteris*)**

– Cartilaginous keel absent below pinna sinuses; aerophores at pinna bases absent; indusia present, persistent ..... ***Christella***

New combinations

The names proposed as needing new combinations were obtained from taxonomic and floristic sources such as floras, monographs, or isolated published papers. All names were checked in IPNI.ORG and TROPICOS.ORG. The main floras consulted were ones for Mexico (Smith 1981a, 1988; Mickel and Beitel 1988, Mickel and Smith 2004), Lesser Antilles (Proctor 1977), Jamaica (Proctor 1985), Puerto Rico and the Virgin Islands (Proctor 1989), Cuba (Sánchez et al 2006), Mesoamerica (Smith 1995a), Guatemala (Smith 1981b), Venezuela (Vareschi 1969; Smith 1995b), Guianas (Smith 1993), Ecuador (Smith 1983), Peru (Smith 1992), Argentina (Ponce 1987), and from Brazil (Brade 1971, Sehnem 1979, Salino and Semir 2002, 2003, 2004, Ponce 2007, Salino and Almeida 2010). The monographs of reference were the works of Christensen (1907, 1913, 1920) and Smith (1980). In addition, the following works describing new species were consulted: Smith and Lellinger (1985), Smith (1990b), Salino (2002), Salino and Melo (2000), Smith and Kessler (2008), Matos et al. (2010), and Salino et al. (2011, 2014). The authorship of new combinations was established as follows: species in Venezuela are credited to Alan R. Smith; Alexandre Salino and Thais Elias Almeida are credited with authorship of the remaining species. We choose to cite only the basionym and the name in *Thelypteris* (when available) for all new combinations; this avoids citation of the often extensive synonymy, information that is available in many recent floristic and taxonomic studies.

New combinations in *Amauropelta*

Amauropelta achalensis **(Hieron.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151259-1
Aspidium achalense Hieron., Bot. Jahrb. Syst. 22: 371. 1896.
Thelypteris achalensis (Hieron.) Abbiatti, Darwiniana 13: 566. 1964.

Amauropelta aculeata **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150878-1
Thelypteris aculeata A.R.Sm., Fl. Ecuador 18: 15. F. 1A, 1B. 1983.

Amauropelta acunae **(C.Sánchez & Zavaro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150879-1
Thelypteris acunae C.Sánchez & Zavaro, Fontqueria 31: 223. f.1. 1991.

Amauropelta aliena **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150880-1
Dryopteris aliena C.Chr., Kongl. Svenska Vetenskapsakad. Handl., ser. 3, 16: 23. 1937.

Amauropelta altitudinis **(Ponce) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151260-1
Thelypteris altitudinis Ponce, Darwiniana 28 (1-4): 345. 1987.

Amauropelta amambayensis **(Ponce) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151261-1
Thelypteris amambayensis Ponce, Candollea 55: 310.

Amauropelta amphioxypteris **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150881-1
Nephrodium amphioxypteris Sodiro, Recens. Crypt. Vasc. Quit. 51. 1883.
Thelypteris amphioxypteris (Sodiro) A.R.Sm., Fl. Ecuador 18: 17. 1983.

Amauropelta andicola **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150882-1
Thelypteris andicola A.R.Sm., Fieldiana, Bot., n.s., 29: 16. 1992.

Amauropelta appressa **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150883-1
Thelypteris appressa A.R.Sm., Fl. Ecuador 18: 19. 1983.

Amauropelta araucariensis **(Ponce) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150884-1
Thelypteris araucariensis Ponce, Darwiniana 33: 270. 1995.

***Amauropelta arborea* (Brause) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151262-1
Dryopteris arborea Brause, Repert. Spec. Nov. Regni Veg. 13: 294. 1914.
Thelypteris arborea (Brause) A.R.Sm., Acta Bot. Venez. 14 (3): 7. 1984.

***Amauropelta arenosa* (A.R.Sm.) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77150885-1
Thelypteris arenosa A.R.Sm., Fl. Ecuador 18: 21. 1983.

***Amauropelta argentina* (Hieron.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151263-1
Aspidium argentinum Hieron., Bot. Jahrb. Syst. 22: 367. 1896.
Thelypteris argentina (Hieron.) Abbiatti, Revista Mus. La Plata, Secc. Bot. 9 (36-37): 19. 1958.

***Amauropelta arrecta* (A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150886-1
Thelypteris arrecta A.R.Sm., Fieldiana, Bot., n.s., 29: 36. 1992.

***Amauropelta atrorubens* (Mett. ex Kuhn) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151264-1
Aspidium atrorubens Mett. ex Kuhn, Linnaea 36. 112. 1869.
Thelypteris atrorubens (Mett. ex Kuhn) A.R.Sm., Fieldiana, Bot., n.s. 29: 24. 1992.

***Amauropelta atrovirens* (C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150887-1
Dryopteris atrovirens C.Chr., Bull. Herb. Boissier, sér. 2, 7 (4): 263. 1907.
Thelypteris atrovirens (C.Chr.) C.F.Reed, Phytologia 17 (4): 261. 1968.

***Amauropelta aymarae* (A.R.Sm. & M.Kessler) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150888-1
Thelypteris aymarae A.R.Sm. & M.Kessler, Brittonia 60 (1): 49. 2008.

***Amauropelta balbisii* (Spreng.) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77150889-1
Polypodium balbisii Spreng., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 10: 228. 1821.
Thelypteris balbisii (Spreng.) Ching, Bull. Fan Mem. Inst. Biol. 10: 250. 1941.

***Amauropelta barvae* (A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150890-1
Thelypteris barvae A.R.Sm., Ann. Missouri Bot. Gard. 77 (1): 118. f. 2A-C. 1990.

Amauropelta basisceletica **(C.Sánchez, Caluff & O.Alvarez) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151265-1
Thelypteris basisceletica C.Sánchez, Caluff & O.Alvarez, Amer. Fern J. 95 (1): 30. f. 1. 2005.

Amauropelta binervata **(A.R.Sm.) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77150891-1
Thelypteris binervata A.R.Sm., Acta Bot. Venez. 14 (3): 6. 1984.

Amauropelta bonapartii **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151266-1
Dryopteris bonapartii Rosenst., Repert. Spec. Nov. Regni Veg. 7: 303–304. 1909.
Thelypteris bonapartii (Rosenst.) Alston, J. Wash. Acad. Sci. 48: 233.1958.

Amauropelta brachypoda **(Baker) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77150892-1
Nephrodium brachypodum Baker, Timehri 5: 213. 1886.
Thelypteris brachypoda (Baker) C.V.Morton, Fieldiana, Bot. 28: 10. 1951.

Amauropelta brachypus **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150893-1
Nephrodium brachypus Sodiro, Recens. Crypt. Vasc. Quit. 43. 1883.
Thelypteris brachypus (Sodiro) R.M.Tryon & A.F.Tryon, Rhodora 84: 128. 1982.

Amauropelta brausei **(Hieron.) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77150894-1
Dryopteris brausei Hieron., Hedwigia 46: 337, t. 6, f. 11. 1907.
Thelypteris brausei (Hieron.) Alston, J. Wash. Acad. Sci. 48: 233. 1958.

Amauropelta burkartii **(Abbiatti) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150895-1
Thelypteris burkartii Abbiatti, Darwiniana 13: 550, f. 4, t. 2. 1964.

Amauropelta campii **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151267-1
Thelypteris campii A.R.Sm., Fl. Ecuador 18: 27. 1983.

Amauropelta canadasii **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150896-1
Nephrodium canadasii Sodiro, Recens. Crypt. Vasc. Quit. 48. 1883.
Thelypteris canadasii (Sodiro) Alston, J. Wash. Acad. Sci 48: 234. 1958.

***Amauropelta caucaensis* (Hieron.) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151268-1
Nephrodium caucaense Hieron., Bot. Jahrb. Syst. 34: 444. 1904.
Thelypetris caucaensis (Hieron.) Alston, J. Wash. Acad. Sci 48: 233. 1958.

***Amauropelta chaparensis* (A.R.Sm. & M.Kessler) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150897-1
Thelypteris chaparensis A.R.Sm. & M.Kessler, Brittonia 60 (1): 51. 2008.

***Amauropelta chiriquiana* (A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150898-1
Thelypteris chiriquiana A.R.Sm., Ann. Missouri Bot. Gard. 77 (1): 120. f. 3A-C. 1990.

***Amauropelta christensenii* (Christ ex C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151269-1
Dryopteris christensenii Christ ex C.Chr., Bull. Herb. Boissier, sér. 2, 7 (4): 263. 1907.
Thelypteris christensenii (Christ ex C.Chr.) C.F.Reed, Phytologia 17 (4): 267. 1968.

***Amauropelta cinerea* (Sodiro) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77150900-1
Nephrodium cinereum Sodiro, Sert. Fl. Ecuad. II. 26. 1908.
Thelypteris cinerea (Sodiro) A.R.Sm., Phytologia 34: 233. 1976.

***Amauropelta cochaensis* (C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150901-1
Dryopteris cochaensis C.Chr., Kongel. Danske Vidensk. Selsk. Skr., Naturvidensk. Math. Afd., ser. 7, 10: 152. 1913.

***Amauropelta cocos* (A.R.Sm. & Lellinger) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150904-1
Thelypteris cocos A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98 (4): 918. f. 3. 1985.

***Amauropelta comptula* (A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150906-1
Thelypteris comptula A.R.Sm., Fieldiana, Bot., n.s., 29: 23. 1992.

***Amauropelta conformis* (Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150908-1
Nephrodium conforme Sodiro, Recens. Crypt. Vasc. Quit. 45. 1883.
Thelypteris conformis (Sodiro) A.R.Sm., Fl. Ecuador 18: 37. 1983.

Amauropelta consanguinea **(Fée) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150910-1
Aspidium consanguineum Fée, Mém. Foug. 11 (Hist. Foug. Ant.): 76, t. 20, f. 3). 1866.
Thelypteris consanguinea (Fée) Proctor, Rhodora 61 (732): 306. 1959.

Amauropelta cooleyi **(Proctor) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77150912-1
Thelypteris cooleyi Proctor, Rhodora 68: 468. 1966.

Amauropelta corazonensis **(Baker) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151270-1
Nephrodium corazonense Baker, J. Bot. 15: 163. 1877, as *carazanensis*".
Thelypteris corazonensis (Baker) A.R.Sm., Fl. Ecuador 18: 38. 1983.

Amauropelta cornuta **(Maxon) Salino & T.E.Almeida, comb. nov.**
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Thelypteris pavoniana (Klotzsch) R.M.Tryon, Rhodora 69(777): 7. 1967.

Amauropelta pelludia **(A.R.Sm. & M.Kessler) Salino & T.E.Almeida, comb. nov.**
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Thelypteris pelludia A.R.Sm. & M.Kessler, Brittonia 60(1): 58. 2008.

Amauropelta peradenia **(A.R.Sm.) A.R.Sm., comb. nov.**
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Thelypteris peradenia A.R.Sm., Ann. Missouri Bot. Gard. 77(2): 272, f. 11. 1990.

Amauropelta peruviana **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
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Dryopteris peruviana Rosenst., Repert. Spec. Nov. Regni Veg. 7: 298-299. 1909.
Thelypteris peruviana (Rosenst.) R.M.Tryon, Rhodora 69(777): 7. 1967.

Amauropelta phacelothrix **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
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Dryopteris phacelothrix Rosenst., Repert. Spec. Nov. Regni Veg. 11: 56. 1912.
Thelypteris phacelothrix (Rosenst.) R.M.Tryon, Rhodora 69(777): 7. 1967.

Amauropelta physematioides **(Kuhn & Christ ex Krug) Salino & T.E.Almeida, comb. nov.**
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Thelypteris physematioides (Kuhn & Christ ex Krug) C.V.Morton, Amer. Fern J. 43(4): 174. 1953.

Amauropelta piedrensis **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
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Dryopteris piedrensis C.Chr., Smithsonian Misc. Collect. 52: 372. 1909.
Thelypteris piedrensis (C.Chr.) C.V.Morton, Amer. Fern J. 53(2): 69. 1963.

Amauropelta pilosissima **(C.V.Morton) A.R.Sm., comb. nov.**
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Thelypteris pilosissima C.V.Morton, Fieldiana, Botany 28: 11. 1951.

Amauropelta pilosohispida **(Hook.) A.R.Sm., comb. nov.**
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Nephrodium pilosohispidum Hook., Spec. Fil. 4: 105. 1862.
Thelypteris pilosohispida (Hook.) Alston, J. Wash. Acad. Sci. 48(7): 233. 1958.

Amauropelta pleiophylla **(Sehnem) Salino & T.E.Almeida, comb. nov.**
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Dryopteris pleiophylla Sehnem, Fl. Ilustr. Catarin. 1(Aspid.): 245. f 61. 1979.
Thelypteris pleiophylla (Sehnem) Ponce, Darwiniana 33(1-4): 270. 1995.

Amauropelta podotricha **(Sehnem) Salino & T.E.Almeida, comb. nov.**
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Dryopteris podotricha Sehnem, Fl. Ilustr. Catarin. 1(Aspid.): 232. f 57. 1979.
Thelypteris podotricha (Sehnem) Ponce, Darwiniana 33(1-4): 270. 1995.

Amauropelta proboscidea **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
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Thelypteris proboscidea A.R.Sm., Fieldiana, Bot., n.s., 29: 36. 1992.

Amauropelta proctorii **(A.R.Sm. & Lellinger) A.R.Sm., comb. nov.**
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Thelypteris proctorii A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98(4): 925. f 9. 1985.

Amauropelta prolatipedis **(Lellinger) A.R.Sm., comb. nov.**
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Thelypteris prolatipedis Lellinger, Amer. Fern J. 67(2): 60, 1977.
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Amauropelta ptarmiciformis **(C.Chr. & Rosenst. ex Rosenst.) Salino & T.E.Almeida, comb. nov.**
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Dryopteris ptarmiciformis C.Chr. & Rosenst. ex Rosenst., Repert. Spec. Nov. Regni Veg. 12: 472. 1913.
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Amauropelta pteroidea **(Klotzsch) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151068-1
Polypodium pteroideum Klotzsch, Linnaea 20. 389. 1847.
Thelypteris pteroidea (Klotzsch) R.M.Tryon, Rhodora 69(777): 8. 1967.

Amauropelta pusilla **(Mett.) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151070-1
Aspidium pusillum Mett., Ann. Sci. Nat., Bot., sér. 5, 2: 245. 1864.
Thelypteris pusilla (Mett.) Ching, Bull. Fan Mem. Inst. Biol. 10: 254. 1941.

Amauropelta raddii **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151072-1
Dryopteris raddii Rosenst., Hedwigia 56: 367. 1915.
Thelypteris raddii (Rosenst.) Ponce, Darwiniana 33(1-4): 266. 1995.

Amauropelta randallii **(Maxon & C.V.Morton ex C.V.Morton) Salino & T.E.Almeida, comb. nov.**
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Thelypteris randallii Maxon & C.V.Morton ex C.V.Morton, Amer. Fern J. 53(2): 69. 1963.

Amauropelta recumbens **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
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Dryopteris recumbens Rosenst., Hedwigia 46. 123. 1906.
Thelypteris recumbens (Rosenst.) C.F.Reed, Phytologia 17: 308. 1968.

Amauropelta reducta **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
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Amauropelta regnelliana **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
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Thelypteris regnelliana (C.Chr.) Ponce, Darwiniana 33(1-4): 264. 1995.

Amauropelta retrorsa **(Sodiro) Salino & T.E.Almeida, comb. nov.**
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Nephrodium retrorsum Sodiro, Recens. Crypt. Vasc. Quit. 51. 1883.
Thelypteris retrorsa (Sodiro) A.R.Sm., Fl. Ecuador 18: 71. 1983.

Amauropelta rheophyta **(Proctor) Salino & T.E.Almeida, comb. nov.**
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Thelypteris rheophyta Proctor, Amer. Fern J. 75(2): 58. f 2. 1985.

Amauropelta rigescens **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151081-1
Nephrodium rigescens Sodiro, Crypt. Vasc. Quit. 239. 1893.
Thelypteris rigescens (Sodiro) A.R.Sm., Fl. Ecuador 18: 72. 1983.

Amauropelta rivularioides **(Fée) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151084-1
Aspidium rivularioides Fée, Crypt. Vasc. Brésil 1: 145, t. 50, f. 1. 1869.
Thelypteris rivularioides (Fée) Abbiatti, Revista Mus. La Plata, Secc. Bot. 9(36-37): 19. 1958.

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Polypodium roraimense Baker, Timehri 5: 214. 1886.
Thelypteris roraimensis (Baker) C.F.Reed, Phytologia 17(4): 310. 1968.

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urn:lsid:ipni.org:names:77151086-1
Dryopteris rosenstockii C.Chr., Kongel. Danske.Vidensk. Selsk. Skr., Naturvidensk. Math. Afd., ser. 7, 4: 304, f. 30. 1907.
Thelypteris rosenstockii (C.Chr.) R.M.Tryon, Rhodora 69(777): 8. 1977.

Amauropelta rosulata **(A.R.Sm. & M.Kessler) Salino & T.E.Almeida, comb. nov.**
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Thelypteris rosulata A.R.Sm. & M.Kessler, Brittonia 60(1): 60. 2008.

Amauropelta rudiformis **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
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Dryopteris rudiformis C.Chr., Univ. Calif. Publ. Bot. 19(9): 305. 1941.
Thelypteris rudiformis (C.Chr.) A.R.Sm., Fl. Ecuador 18: 74. 1983.

Amauropelta rufa **(Poir.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151302-1
Polypodium rufum Poir., Encycl. 5: 532. 1804.
Thelypteris rufa (Poir.) A.R.Sm. Fl. Ecuador 18: 77. 1983.

Amauropelta ruiziana **(Klotzsch) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151092-1
Polypodium ruizianum Klotzsch, Linnaea 20: 385. 1847.
Thelypteris ruiziana (Klotzsch) A.R.Sm. Fieldiana, Bot., n.s. 29: 35. 1992.

Amauropelta rupestris **(Klotzsch) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151094-1
Leptogramma rupestris Klotzsch, Linnaea 20. 415. 1847.
Thelypteris rupestris (Klotzsch) C.F.Reed, Phytologia 17(4): 310. 1968.

Amauropelta rupicola **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
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Dryopteris rupicola C.Chr., Repert. Spec. Nov. Regni Veg. 15: 24. 1917.
Thelypteris rupicola (C.Chr.) Ching, Bull. Fan Mem. Inst. Biol. 10: 254. 1941.

Amauropelta rustica **(Fée) Salino & T.E.Almeida, comb. nov.**
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Phegopteris rustica Fée, Mém. Foug. 11 (Hist. Foug. Ant.): 55, t. 13, f. 1. 1866.
Thelypteris rustica (Fée) Proctor, Rhodora 61(732): 306. 1959[1960].

Amauropelta sanctae-catharinae **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151097-1
Dryopteris sanctae-catharinae Rosenst., Hedwigia 46: 126. 1906.
Thelypteris sanctae-catharinae (Rosenst.) Ponce, Darwiniana 33(1-4): 280. 1995.

Amauropelta saxicola **(Sw.) Salino & T.E.Almeida, comb. nov.**
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Polypodium saxicola Sw., Kongl. Vetensk. Acad. Handl. 1817: 59, t. 3, f. 5. 1817.
Thelpyteris saxicola (Sw.) C.F.Reed, Phytologia 17(4): 312. 1968.

Amauropelta scalpturoides **(Fée) Salino & T.E.Almeida, comb. nov.**
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Phegopteris scalpturoides Fée, Mém. foug. 11 (Hist. foug. Ant.): 51. 1866.
Thelypteris scalpturoides (Fée) C.F.Reed, Phytologia 17(4): 312. 1968.

Amauropelta sellensis **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151104-1
Dryopteris sellensis C.Chr., Kungl. Svenska Vetenskapsakad. Handl., ser. 3, 16(2): 24. t. 3(7–8). 1937.

Amauropelta semilunata **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151106-1
Nephrodium semilunatum Sodiro, Recens. Crypt. Vasc. Quit. 46. 1883.
Thelyteris semilunata (Sodiro) A.R.Sm., Fl. Ecuador 18: 79. 1983.

Amauropelta shaferi **(Maxon & C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151304-1
Dryopteris shaferi Maxon & C.Chr., Amer. Fern J. 4: 77. 1914.
Thelypteris shaferi (Maxon & C.Chr.) Duek, Adansonia, sér. 2, 11: 719. 1971 [1972].

Amauropelta soridepressa **(Salino & V.A.O.Dittrich) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151108-1
Thelypteris soridepressa Salino & V.A.O.Dittrich, Amer. Fern J. 98(4): 199. f 1. 2009.

Amauropelta steyermarkii **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151110-1
Thelypteris steyermarkii A.R.Sm., Fl. Ecuador 18: 79. 1983.

Amauropelta stierii **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151305-1
Gymnogramma stierii Rosenst., Festschrift Albert von Bamberg 64. 1905.
Thelypteris stierii (Rosenst.) C.F.Reed, Phytologia 17(4): 316. 1968.

Amauropelta straminea **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151112-1
Nephrodium stramineum Sodiro, Recens. Crypt. Vasc. Quit. 43. 1883.
Thelypteris chimboracensis A.R.Sm., Fl. Ecuador 18: 34. 1993.

Amauropelta strigillosa **(A.R.Sm. & Lellinger) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151113-1
Thelypteris strigillosa A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98(4): 927. F 10. 1985.

Amauropelta struthiopteroides **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151306-1
Dryopteris struthiopteroides C.Chr., Smithsonian Misc. Collect. 52(3): 388. 1909.
Thelypteris struthiopteroides (C.Chr.) C.F.Reed, Phytologia 17(4): 316. 1968.

Amauropelta subscandens **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151116-1
Thelypteris subscandens A.R.Sm., Ann. Missouri Bot. Gard. 77(1): 123. f 4. 1990.

Amauropelta subtilis **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151118-1
Thelypteris subtilis A.R.Sm., Fl. Ecuador 18: 80. 1983.

Amauropelta supina **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151307-1
Nephrodium supinum Sodiro, Crypt. Vasc. Quit. 241. 1893.
Thelypteris supina (Sodiro) A.R.Sm., Fl. Ecuador 18: 82. 1983.

Amauropelta tablana **(Christ) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151120-1
Aspidium tablanum Christ, Bull. Herb. Boissier, sér. 2, 5: 727. 1905.
Thelypteris tablana (Christ) A.R.Sm., Amer. Fern J. 63(3): 127. 1973.

Amauropelta tamandarei **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151122-1
Dryopteris tamandarei Rosenst., Hedwigia 56. 365. 1915.
Thelypteris tamandarei (Rosenst.) Ponce, Novon 8(3): 277. 1998.

Amauropelta tapantensis **(A.R.Sm. & Lellinger) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151124-1
Thelypteris tapantensis A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98(4): f 11. 927. 1985.

Amauropelta tenerrima **(Fée) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151126-1
Aspidium tenerrimum Fée, Crypt. Vasc. Brésil 1: 134. t 43, f 1. 1869.
Thelypteris tenerrima (Fée) C.F.Reed, Phytologia 17(4): 319. 1968.

Amauropelta trelawniensis **(Proctor) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151308-1
Thelypteris trelawniensis Proctor, Amer. Fern J. 71(2): 58. 1981.

Amauropelta uncinata **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151128-1
Thelypteris uncinata A.R.Sm., Fl. Ecuador 18: 86. 1983.

Amauropelta vattuonei **(Hicken) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151129-1
Dryopteris vattuonei Hicken, Darwiniana 1: 100. 1924.
Thelypteris vattuonei (Hicken) Abbiatti, Darwiniana 13: 566. 1964.

Amauropelta venturae **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151132-1
Thelypteris venturae A.R.Sm., Mem. New York Bot. Gard. 88: 638. f 302A-C. 2004.

Amauropelta vernicosa **(A.R.Sm. & Lellinger) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151134-1
Thelypteris vernicosa A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98(4): 929. f 12. 1985.

Amauropelta villana **(L.D.Gómez) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151136-1
Thelypteris villana L.D.Gómez, Rev. Biol. Trop. 17(1): 106. f 1-4. 1970.

Amauropelta yungensis **(A.R.Sm. & M.Kessler) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151138-1
Thelypteris yungensis A.R.Sm. & M.Kessler, Brittonia 60(1): 61. 2008.

Amauropelta zurquiana **(A.R.Sm. & Lellinger) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151140-1
Thelypteris zurquiana A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98(4): 929. f 13. 1985.

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Goniopteris abdita **(Proctor) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151141-1
Thelypteris abdita Proctor. Amer. Fern J. 75(2): 63. f 4. 1985.

Goniopteris abrupta **(Desv.) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151144-1
Polypodium abruptum Desv., Mém. Soc. Linn. Paris 6: 239. 1827.
Thelypteris abrupta (Desv.) Proctor, Rhodora 61: 305. 1960.

Goniopteris alan-smithiana **(L.D.Gómez) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151354-1
Thelypteris alan-smithiana L.D.Gómez, Phytologia 50(7): 458. 1982.

Goniopteris amazonica **(Salino & R.S.Fernandes) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151310-1
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urn:lsid:ipni.org:names:77151311-1
Dryopteris ancyriothrix Rosenst., Repert. Spec. Nov. Regni Veg. 7: 305-306. 1909.
Thelypteris ancyriothrix (Rosenst.) A.R.Sm., Fl. Ecuador 18: 140. 1983.

Goniopteris anoptera **(Kunze ex Kuhn) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151312-1
Aspidium anopteron Kunze ex Kuhn, Linnaea 36. 113. 1869.
Thelypteris anoptera (Kunze ex Kuhn) C.F.Reed, Phytologia 17(4): 260. 1968.

Goniopteris aureola **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
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Thelypteris aureola A.R.Sm., Ann. Missouri Bot. Gard. 77(1): 118. f 1D-E. 1990.

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urn:lsid:ipni.org:names:77151150-1
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Goniopteris berlinii **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151152-1
Thelypteris berlinii A.R.Sm., Novon 16: 431. 2006.

Goniopteris bibrachiata **(Jenman) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151154-1
Nephrodium bibrachiatum Jenman, Gard. Chron., ser. 3, 15: 230. 1894.
Thelypteris bibrachiata (Jenman) Proctor, Ferns Jamaica 337. 1985.

Goniopteris biformata **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151355-1
Dryopteris biformata Rosenst., Repert. Spec. Nov. Regni Veg. 7: 300-301. 1909.
Thelypteris biformata (Rosenst.) R.M.Tryon, Rhodora 69(777): 5. 1967.

Goniopteris blanda **(Fée) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151156-1
Phegopteris blanda Fée, Mém. Foug. 8: 91. 1857.
Thelypteris blanda (Fée) C.F.Reed, Phytologia 17(4): 264. 1968.

Goniopteris calypso **(L.D.Gómez) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151157-1
Thelypteris calypso L.D.Gómez, Brenesia 8: 98. 1976.

Goniopteris chocoensis **(A.R.Sm. & Lellinger) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151160-1
Thelypteris chocoensis A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98(4): 916. f 1. 1985.

Goniopteris clypeata **(Maxon & C.V.Morton) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151162-1
Dryopteris clypeata Maxon & C.V.Morton, Bull. Torrey Bot. Club 66: 52. 1939.
Thelypteris clypeata (Maxon & C.V.Morton) K.U.Kramer, Acta Bot. Neerl. 18: 141. 1969.

Goniopteris cordata **(Fée) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151164-1
Phegopteris cordata Fée, Mém. Foug. 5 (Gen. filic.): 244. 1852.
Thelypteris cordata (Fée) Proctor, Bull. Inst. Jamaica, Sci. Ser. 5: 59. 1953.

Goniopteris costaricensis **Salino & T.E.Almeida, nom. nov.**
urn:lsid:ipni.org:names:77151356-1
Thelypteris crenata A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98(4): 919. f 4. 1985.
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Thelypteris croatii A.R.Sm., Ann. Missouri Bot. Gard. 77(1): 122. f 1A-C. 1990.

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Thelypteris killipii A.R.Sm. & Lellinger, Proc. Biol. Soc. Wash. 98(4): 923. f 7. 1985.

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Thelypteris littoralis Salino, Brittonia 54(4): 332. f 1. 2002.

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Thelypteris martinezii A.R.Sm., Mem. New York Bot. Gard. 88: 654-655. f 308I. 2004.

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Dryopteris nicaraguensis (E.Fourn.) C.Chr. var. *minor* C.Chr., Kongel. Danske Vidensk. Selsk. Skr., Naturvidensk. Math. Afd., ser. 7, 10: 252. 1913.

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Thelypteris minutissima Caluff & C.Sánchez, Willdenowia 34: 511. 2004.

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Thelypteris montana Salino, Brittonia 54(4): 334. f 2D-F. 2002.

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Goniopteris munchii **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151200-1

Thelypteris munchii A.R.Sm., Amer. Fern J. 63(3): 120. f 9-10. 1973.

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Thelypteris paranaensis Salino, Brittonia 54(4): 337. F 2A-C. 2002.

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Aspidium paucijugum Klotzsch, Linnaea 20: 368. 1847.
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Aspidium pellitum Willd., Sp. Pl. ed. 4. 5: 242. 1810.
Thelypteris pellita (Willd.) Proctor & Lourteig, Bradea 5(40): 384. 1990.

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Nephrodium peripae Sodiro, Recens. Crypt. Vasc. Quit. 52. 1883.
Thelypteris peripae (Sodiro) C.F.Reed, Phytologia 17(4): 303. 1968.

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Dryopteris praetermissa Maxon, Proc. Biol. Soc. Wash. 57: 20. 1944.
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Thelypteris redunca A.R.Sm., Ann. Missouri Bot. Gard. 77(1): 123. f 1F-H. 1990.

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Dryopteris resiliens Maxon, Field Mus. Publ. Bot. 17: 302. 1938.
Thelypteris resiliens (Maxon) A.R.Sm., Amer. Fern J. 63(3): 121. 1973.

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Polypodium retroflexum L., Sp. Pl. 1089. 1753.
Thelypteris retroflexa (L.) Proctor & Lourteig, Bradea 5(40): 385. 1990.

Goniopteris rhachiflexuosa **(Riba) Salino & T.E.Almeida, comb. nov.**
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Thelypteris rhachiflexuosa Riba, Amer. Fern J. 79(3): 122. f 1. 1989.

Goniopteris ×rolandii **(C.Chr.) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151328-1
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Thelypteris ×rolandii (C.Chr.) R.M.Tryon, Rhodora 69: 8. 1967.

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urn:lsid:ipni.org:names:77151220-1
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urn:lsid:ipni.org:names:77151330-1
Nephrodium schaffneri Fée, Mém. Foug. 8: 108. 1857.
Thelypteris schaffneri (Fée) C.F.Reed, Phytologia 17(4): 312. 1968.

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Thelypteris schippii (Weath.) A.R.Sm., Phytologia 34(3): 233. 1976.

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urn:lsid:ipni.org:names:77151221-1
Thelypteris schomburgkii A.R.Sm., Ann. Missouri Bot. Gard. 77(1): 202. f 1. 1990.

Goniopteris schunkei **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
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Thelypteris schunkei A.R.Sm., Fieldiana, Bot., n.s., 29: 63. 1992.

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urn:lsid:ipni.org:names:77151226-1
Aspidium semihastatum Kunze, Linnaea 9: 91. 1834.
Thelypteris semihastata (Kunze) Ching, Bull. Fan Mem. Inst. Biol. 10: 254. 1941.

Goniopteris semirii **(Salino & L.C.N.Melo) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151332-1
Thelypteris semirii Salino & L.C.N.Melo, Novon 10(1): 74. f 1A-e. 2000.

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Dryopteris septemjuga C.Chr., Kongl. Svenska Vetenskapsakad. Handl., ser. 3, 16(2): 32, t. 7, f. 4-5. 1937.

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Thelypteris skinneri (Hook.) C.F.Reed, Phytologia 17(4): 314. 1968

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Thelypteris stephanii A.R.Sm. & M.Kessler, Brittonia 60(1): 61. 2008.

Goniopteris stolzeana **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
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Thelypteris stolzeana A.R.Sm., Phytologia 34(3): 231. 1976.

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Dryopteris subsagittata Maxon & C.Chr., Kongl. Svenska Vetenskapsakad. Handl., ser. 3, 16(2): 28, t. 6, f. 5–6. 1937.

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urn:lsid:ipni.org:names:77151234-1
Nephrodium tenebricum Jenman, J. Bot. 20: 326. 1882.
Thelypteris tenebrica (Jenman) Proctor, Bull. Inst. Jamaica, Sci. Ser. 5: 65. 1953.

Goniopteris tryoniorum **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151334-1
Thelypteris tryoniorum A.R.Sm., Fieldiana, Bot., n.s., 29: 62. 1992.

Goniopteris tuxtlensis **(T.Krömer, Acebey & A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151236-1
Thelypteris tuxtlensis T.Krömer, Acebey & A.R.Sm., Amer. Fern J. 97(3): 137–139. 2007.

Goniopteris urbani **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151335-1
Polypodium urbani Sodiro, Crypt. Vasc. Quit. 301. 1893.
Thelypteris urbani (Sodiro) A.R.Sm., Fl. Ecuador 18: 116. 1983

Goniopteris verecunda **(Proctor) Salino & T.E.Almeida, comb. nov.**
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Thelypteris verecunda Proctor, Amer. Fern J. 75(2): 65. f 5. 1985.

Goniopteris yaucoensis **(Proctor) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151336-1
Thelypteris yaucoensis Proctor, Mem. New York Bot. Gard. 53: 208. 1989.

New combinations in *Steiropteris*

Steiropteris **subg.** ***Glaphyropteris*** **(Fée) A.R.Sm., comb. et stat. nov.**
urn:lsid:ipni.org:names:77151337-1
Glaphyropteris C.Presl ex Fée, Crypt. Vasc. Brésil, 2. 40. 1873.
Dryopteris subg. *Glaphyropteris* (C.Presl. ex Fée) C.Chr., Biol. Arb. Til. Eug. Warming 80. 1911.
Thelypteris subg. *Glaphyropteris* (C.Presl. ex Fée), Alston, J. Wash. Acad. Sci. 48: 234. 1958.

Steiropteris buchtienii **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151338-1
Thelypteris buchtienii A.R.Sm., Univ. Calif. Publ. Bot. 76: 10. 1980.

Steiropteris clypeolutata **(Desv.) Pic.Serm. var.** ***holmei*** **(Baker) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151240-1
Nephrodium holmei Baker, Ann. Bot. 5: 317. 1891.
Thelypteris clypeolutata (Desv.) Proctor var. *holmei* (Baker) A.R.Sm., Univ. Calif. Publ. Bot. 76: 11. 1980.

Steiropteris comosa **(C.V.Morton) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151242-1
Dryopteris comosa C.V.Morton, J. Wash. Acad. Sci. 28: 528. 1938.
Thelypteris comosa (C.V.Morton) C.V.Morton, Amer. Fern J. 51(1): 38. 1961.

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urn:lsid:ipni.org:names:77151339-1
Polypodium decussatum L., Species Plantarum 2: 1093. 1753.
Thelypteris decussata (L.) Proctor, Bull. Inst. Jamaica, Sci. Ser. 5: 59. 1953.

Steiropteris decussata **(L.) A.R.Sm. var.** ***brasiliensis*** **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151340-1
Dryopteris decussata var. *brasiliensis* C.Chr., Kongel. Danske Vidensk. Selsk. Skr., Naturvidensk. Math. Afd., ser. 7, 10: 161. 1913.
Thelypteris decussata var. *brasiliensis* (C.Chr.) A.R.Sm., Univ. Calif. Publ. Bot. 76: 15. 1980.

Steiropteris decussata **var.** ***costaricensis*** **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151341-1
Thelypteris decussata var. *costaricensis* A.R.Sm., Univ. Calif. Publ. Bot. 76: 16. 1980.

Steiropteris decussata **var.** ***mapiriensis*** **(Rosenst.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151342-1
Dryopteris mapiriensis Rosenst., Repert. Spec. Nov. Regni Veg. 6: 313. 1909.
Thelypteris decussata var. *mapiriensis* (Rosenst.) A.R.Sm., Univ. Calif. Publ. Bot. 76: 16. 1980.

Steiropteris decussata **var.** ***velutina*** **(Sodiro) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151343-1
Polypodium velutinum Sodiro, Recens. Crypt. Vasc. Quit. 59. 1883.
Thelypteris decussata var. *velutina* (Sodiro) A.R.Sm., Univ. Calif. Publ. Bot. 76: 17. 1980.

Steiropteris fraseri **(Mett. ex Kuhn) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151344-1
Aspidium fraseri Mett. ex Kuhn, Linnaea 36: 109. 1869.
Thelypteris fraseri (Mett. ex Kuhn) A.R.Sm., Univ. Calif. Publ. Bot. 76: 32. 1980.

Steiropteris glandulosa **(Desv.) Pic.Serm. var.** ***brachyodus*** **(Kunze) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151256-1
Polypodium brachyodus Kunze, Linnaea 9: 48. 1834.
Thelypteris glandulosa var. *brachyodus* (Kunze) A.R.Sm., Phytologia 34: 233. 1976.

Steiropteris glandulosa **(Desv.) Pic.Serm. var.** ***longipilosa*** **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151345-1
Thelypteris glandulosa (Desv.) Proctor var. *longipilosa* A.R.Sm., Univ. Calif. Publ. Bot. 76: 22. 1980.

Steiropteris hatschbachii **(A.R.Sm.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151346-1
Thelypteris hatschbachii A.R.Sm., Univ. Calif. Publ. Bot. 76: 22. 1980.

Steiropteris hottensis **(C.Chr.) Salino & T.E.Almeida, comb. nov.**
urn:lsid:ipni.org:names:77151244-1
Dryopteris hottensis C.Chr., Kongl. Svenska Vetenskapsacad. Handl., ser. 3, 16(2): 26. t 2(4-6). 1937.
Thelypteris hottensis (C.Chr.) A.R.Sm., Univ. Calif. Publ. Bot. 76: 23. 1980.

Steiropteris leprieurii **(Hook.) Pic.Serm. var.** ***costalis*** **(Baker) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151347-1
Nephrodium costale Baker, Syn Fil, 2. 495.1874.
Thelypteris leprieurii (Hook.) R.M.Tryon var. *costalis* (Baker) A.R.Sm., Univ. Calif. Publ. Bot. 76: 25. 1980.

Steiropteris leprieurii **(Hook.) Pic.Serm. var.** ***glandifera*** **(A.R.Sm) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151348-1
Thelypteris leprieurii (Hook.) R.M.Tryon var. *glandifera* A.R.Sm., Univ. Calif. Publ. Bot. 76: 25. 1980.

Steiropteris leprieurii **(Hook.) Pic.Serm. var.** ***incana*** **(Christ) A.R.Sm., comb. nov.**
urn:lsid:ipni.org:names:77151258-1
Aspidium incanum Christ, Hedwigia 44: 367. 1905.
Thelypteris leprieurii (Hook.) R.M.Tryon var. *incana* (Christ) A.R.Sm., Univ. Calif. Publ. Bot. 76: 26. 1980.

Steiropteris leprieurii **(Hook.) Pic.Serm. var.** ***subcostalis*** **(A.R.Sm.) A.R.Sm., comb. nov.**
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